

IN THE CLAIMS:

Please amend the claims as shown below. The claims, as currently pending in the application, read as follows:

1. (Currently Amended) An electric charging apparatus for holding and charging a secondary battery, the electric charging apparatus being attachable to an ~~electronic apparatus~~ ~~a printer~~ that can be driven with the secondary battery while the electric charging apparatus is attached to the ~~electronic apparatus~~ ~~printer~~, said electric charging apparatus comprising:

    a terminal configured to supply electric power from the secondary battery held in the ~~electronic~~ ~~electric~~ charging apparatus to the ~~electronic apparatus~~ ~~printer~~ to which the electric charging apparatus is attached;

    reception means for receiving, from the ~~electronic apparatus~~ ~~printer~~, residual capacity information corresponding to a ~~battery~~ residual capacity of the secondary battery;

    display means for displaying the battery residual capacity of the secondary battery; and

    display control means for causing said display means to display the battery residual capacity of the secondary battery based on the residual capacity information received by said reception means,

    wherein the residual capacity of the secondary battery is detected by the ~~electronic apparatus~~ ~~printer~~ based on the electric power being supplied via the terminal from the secondary battery to the ~~electronic apparatus~~ ~~printer~~.

2. (Original) The charging apparatus according to claim 1, wherein said display control means displays a display pattern in correspondence with the residual capacity information.

3. (Currently Amended) The charging apparatus according to claim 1, further comprising:

electric power input means for inputting a driving voltage based on a commercial power source; and

power source relay means for relay-outputting the driving voltage inputted by said electric power input means, in addition to an output voltage from the secondary battery, to the electronic apparatus printer.

4. (Previously Presented) The charging apparatus according to claim 3, wherein said power source relay means selects the higher of the output voltage from the secondary battery and the driving voltage from said electric power input means, and supplies the selected voltage.

5. (Currently Amended) ~~An~~electronic apparatus A printer, to which an electric charging unit for holding and charging a secondary battery is attachable, and that can be driven with electric power from the secondary battery while the electric charging unit is attached to said electronic apparatus printer, comprising:

reception means for receiving electric power supplied from the secondary battery held in the electric charging unit to which the electronic apparatus printer is attached;

residual capacity detection means for detecting a battery residual capacity of the secondary battery held in the electric charging unit based on the electric power received by said reception means, in a state where a consumption power of the electronic apparatus printer is approximately constant; and

residual capacity transmission means for transmitting, to the electric charging unit, residual capacity information corresponding to the battery residual capacity detected by said residual capacity detection means.

6. (Currently Amended) The electronic apparatus printer according to claim 5, wherein said residual capacity detection means detects the residual capacity based on an output voltage from the secondary battery.

7. (Currently Amended) The electronic apparatus printer according to claim 5, wherein said electronic apparatus printer is an image printing apparatus which performs image printing by driving a print head.

8. (Currently Amended) The electronic apparatus printer according to claim 7, wherein said image printing apparatus is an ink jet printing apparatus which forms an image on a printing medium by discharging ink from the print head.

9. (Currently Amended) A battery residual capacity display control method in an electric charging apparatus for holding and charging a secondary battery, the electric charging apparatus being attachable to an electronic apparatus a printer that can be driven with the secondary battery while the electric charging apparatus is attached to the electronic apparatus printer, said method comprising:

a step of supplying electric power from the secondary battery held in the electronic electric charging apparatus to the electronic apparatus printer to which the electric charging apparatus is attached;

a reception step of receiving, from the electronic apparatus printer, residual capacity information corresponding to a battery residual capacity of the secondary battery; and

a display control step of causing a display unit to display the battery residual capacity of the secondary battery based on the residual capacity information received in said reception step,

wherein the residual capacity of the secondary battery is detected by the electronic apparatus printer based on the electric power being supplied from the secondary battery to the electronic apparatus printer via a terminal of the electric charging apparatus.

10. (Currently Amended) A battery residual capacity detection method in an electronic apparatus a printer, to which an electric charging unit for holding and charging a secondary battery is attachable, and that can be driven with electric power from the secondary battery while the electric charging unit is attached to said electronic apparatus printer, said method comprising:

a reception step of receiving electric power supplied from the secondary battery held in the electric charging unit to which the ~~electronic apparatus~~ printer is attached;

a residual capacity detection step of detecting a battery residual capacity of the secondary battery held in the electric charging unit based on the electric power received in said reception step, in a state where a consumption of power of the ~~electronic apparatus~~ printer is approximately constant; and

a residual capacity transmission step of transmitting, to the electric charging unit, residual capacity information corresponding to the battery residual capacity detected in said residual capacity detection step.

11. (Cancelled).

12. (Currently Amended) An electric charging apparatus for holding and charging a secondary battery, the electric charging apparatus being attachable to an ~~electronic apparatus~~ a printer that can be driven with the secondary battery while the electric charging apparatus is attached to the ~~electronic apparatus~~ printer, said electric charging apparatus comprising:

a terminal configured to supply electric power from the secondary battery held in the ~~electronic~~ electric charging apparatus to the ~~electronic apparatus~~ printer which the electric charging apparatus is attached;

a communication unit configured to perform communication with the ~~electronic apparatus~~ printer;

a display unit configured to display a battery residual capacity of the secondary battery;

a display control unit configured to, when residual capacity information corresponding to [[a]] the battery residual capacity of the secondary battery is received from the electronic apparatus printer via the communication unit, display the battery residual capacity on the display unit based on the residual capacity information; and

a control unit configured to control electric charging of the secondary battery in accordance with the residual capacity information,

wherein the battery residual capacity of the secondary battery is detected by the electronic apparatus printer based on the electric power being supplied via the terminal from the secondary battery to the electronic apparatus printer.